

## CLAIMS

1. Positioning system for data acquisition by means of a data acquisition system comprising at least one antenna that is passed over a surface (17) to be surveyed comprising: a plurality of guides (10) side by side that can be coupled to said surface (17); a structure (13) comprising a surface having at least one guide (14) that engages with said plurality of guides (10) and suitable for being conducted along said plurality of guides (10), said structure (13) comprises said at least one antenna of said data acquisition system.

10 2. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) are linear guides.

3. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) are positioned on a supporting layer (11) of flexible material.

15 4. Positioning system in accordance with claim 3 characterized in that said support (11) of flexible material and said plurality of guides (10) and said at least one guide (14) present an upper surface on which said structure (13) can advance.

20 5. Positioning system in accordance with claim 3 characterized in that said support (11) of flexible material comprises a lower abrasive surface so that it does not move once it is positioned.

6. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) are positioned at preset distances (D1).

25 7. Positioning system in accordance with claim 1 characterized in that a measuring system having a preset working wave length is placed above said structure (13) and said plurality of guides (10) are positioned at a preset distance proportional to said wavelength.

30 8. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) comprise at least one portion of guides identified with an identification element.

9. Positioning system in accordance with claim 1 characterized in that said positioning system permits 3 dimension Georadar acquisitions.

5 10. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) presents a stopping device (16) of said structure (13) at at least one extremity of said plurality of guides (10).

11. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) consists of flexible material.

10 12. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) side by side can be applied to a surface (17) by means of glue.

13. Positioning system in accordance with claim 1 characterized in that said plurality of guides (10) side by side belong to a layer of corrugated cardboard.

15 14. Positioning system in accordance with claim 13 characterized in that said at least one guide (14) side by side of said structure (13) belong to a layer of corrugated cardboard fixed to a lower surface of said structure (13).

15. Positioning system in accordance with claim 1 characterized in that said data acquisition system comprises a transmitter and a receiver.